INDEX TO AUTHORS

A

Altschule, Mark D. See GILLIGAN, VOLK, and ALTSCHULE, 745

Anderson, R. J., and **Newman, M. S.** The chemistry of the lipids of tubercle bacilli. XXXV. The constitution of phthiocol, the pigment isolated from the human tubercle bacillus, 197

— and —. XXXVII. The synthesis of phthiocol, the pigment of the human tubercle bacillus, 405

Anslow, Gladys A., Foster, Mary Louise, and **Klingler, Charlotte.** The absorption spectra of glycine solutions and their interpretation, 81

Armstrong, W. D. See RENSHAW and ARMSTRONG, 187

B

Barker, H. Albert. The optical rotatory power of heat-denatured egg albumin, 1

Baumann, Carl A., Steenbock, H., Ingraham, Mary A., and **Fred, E. B.** Fat-soluble vitamins. XXXVIII. Microorganisms and the synthesis of carotene and vitamin A, 339

Benjamin, Helen Rivkin, and **Hess, Alfred F.** The forms of the calcium and inorganic phosphorus in human and animal sera. III. A comparison of physiological and experimental hypercalcemia, 629

—, —, and **Gross, Joseph.** The forms of magnesium in serum and milk, 383

Bensley, E. H. The renal threshold of bilirubin. II, 71

Bercovici, I. See MORGULIS, 757

Bessey, Otto A., and **King, C. G.** The distribution of vitamin C in plant and animal tissues, and its determination, 687

Bills, Charles E. See HONEYWELL and BILLS, 515

Blatherwick, N. R., Medlar, E. M., Bradshaw, Phoebe J., Post, Anna L., and **Sawyer, Susan D.** The dietary production of fatty livers in rats, 93

Block, Richard J. The basic amino acids of serum proteins, 261

— and **Farquhar, Lucille Reed.** Studies on vitamin G (B_2). I. Yeast and liver preparations as a source of vitamin G (B_2), 643

XUM

Bloor, W. R. Diet and the blood lipids. II. The effect of occasional overfeeding on the post-absorptive level, 699

Bosworth, A. W., and **Brown, J. B.** Isolation and identification of some hitherto unreported fatty acids in butter fat, 115

Boyd, Julian D., Drain, Charles L., and **Stearns, Genevieve.** Metabolic studies of children with dental caries, 327

Boyd, M. J. Hematoporphyrin, an artificial proteolytic enzyme, 249

Bradshaw, Phoebe J. See Blatherwick, Medlar, Bradshaw, Post, and Sawyer, 93

Breusch, Fritz. See Schoenheimer and Breusch, 439

Brown, J. B. See Bosworth and Brown, 115

Buchwald, K. W., Cori, Carl F., and **Fisher, Robert E.** The influence of *l*- and *d*-lactate on oxygen consumption of rabbits, 763

C

Campbell, Percy A. See Holmes, Pigott, and Campbell, 657

Cape, Jane, and **Sevringhaus, Elmer L.** The rate of change of alkali reserve after ingestion of salts of organic compounds. I. Normal variations in acid-base balance under basal conditions, 257

Carey, Benjamin W., Jr. See Maddock, Trimble, and Carey, 285

Chanutin, Alfred. See Kinard and Chanutin, 461

Christman, A. A. See Tulane, Christman, and Lewis, 141

Church, Anna E. See Sure, Kik, and Church, 417

Closs, John O. See Cori, Closs, and Cori, 13

Cori, Carl F. See Buchwald, Cori, and Fisher, 763

—. See Cori, Closs, and Cori, 13

Cori, Gerty T., Closs, John O., and **Cori, Carl F.** Fermentable sugar in heart and skeletal muscle, 13

Correll, John T., and **Hughes, J. S.** The relation of filtrable to non-filtrable calcium in chicken blood, 511

Cox, Warren M., Jr. The nutritive value of pure fatty acid esters, 777

D

Daft, Floyd Shelton, Robscheit-Robbins, Frieda S., and **Whipple, G. H.** New formed hemoglobin and protein catabolism. Conservation of intermediates in the anemic dog on a protein-free diet, 495

Dalton, John B., and **Schmidt, Carl L. A.** The solubilities of certain amino acids in water, the densities of their solutions at twenty-five degrees, and the calculated heats of solution and partial molal volumes, 549

Dillman, Lucius M., and **Visscher, Maurice B.** The calcium content of ultrafiltrates of plasma and the influence of changes in hydrogen and bicarbonate ion concentrations upon it, 791

Dingwall, Andrew. See Rabinowitch, Dingwall, and Mackay, 707, 725

Dorfmann, Ralph. See Loring, Dorfmann, and du Vigneaud, 399

Drabkin, David L. See Fitz-Hugh, Robson, and Drabkin, 617

Drain, Charles L. See Boyd, Drain, and Stearns, 327

Dunn, Max S., Ross, Frank J., and **Read, Lee S.** The solubility of the amino acids in water, 579

E

Eckstein, H. C. The linoleic and linolenic acid contents of butter fat, 135

Elvehjem, C. A., Hart, E. B., and **Sherman, W. C.** The availability of iron from different sources for hemoglobin formation, 61

— and **Kline, B. E.** Calcium and phosphorus studies in the chick, 733

—. See Keenan, Kline, Elvehjem, Hart, and Halpin, 671

Erickson, Betty Nims, Stoner, Neva, and **Macy, Icie G.** Human milk studies. XIV. A critique of the determinations of nitrogenous constituents, 235

F

Falk, K. George. Directive influences in biological systems. III. The effect of proteases on lipase actions, 363

Farquhar, Lucille Reed. See Block and Farquhar, 643

Fisher, Robert E. See Buchwald, Cori, and Fisher, 763

Fitz-Hugh, Thomas, Jr., Robson, George M., and **Drabkin, David L.** Hemoglobin production. IV. Evaluation of therapeutic agents in anemia, due to milk diets, based on a study of the blood and bone marrow of rats from birth to maturity, 617

Foster, Mary Louise. See Anslow, Foster, and Klingler, 81

Fox, Denis L. See Marks and Fox, 269

Fred, E. B. See Baumann, Steenbock, Ingraham, and Fred, 339

G

Gilligan, D. Rourke, Volk, Marie C., and **Altschule, Mark D.** The diffusibility of plasma calcium following parathormone administration. Comparison of the calcium, phosphate, and protein concentrations of serum and edema fluids, 745

Gordon, William G., See Vickery and Gordon, 543

Gross, Joseph. See Benjamin, Hess, and Gross, 383

XUM

H

Hald, Pauline M. The determination of the bases of serum and whole blood, 471

Halpin, J. G. See KEENAN, KLINE, ELVEHJEM, HART, and HALPIN, 671

Hart, E. B. See ELVEHJEM, HART, and SHERMAN, 61

—. See KEENAN, KLINE, ELVEHJEM, HART, and HALPIN, 671

Hess, Alfred F. See BENJAMIN and HESS, 629

—. See BENJAMIN, HESS, and GROSS, 383

Hess, W. C. The gasometric determination of cysteine and cystine, 449

Holmes, Arthur D., Pigott, Madeleine G., and **Campbell, Percy A.** The hemoglobin content of chicken blood, 657

Honeywell, Edna M., and **Bills, Charles E.** Cerevisterol: new notes on composition, properties, and relation to other sterols, 515

Hotchkiss, H. T., Jr. See RENSHAW and HOTCHKISS, 183

Hughes, J. S. See CORRELL and HUGHES, 511

I

Ingraham, Mary A. See BAUMANN, STEENBOCK, INGRAHAM, and FRED, 339

J

Jackson, Arnold O., and **Marvel, Carl S.** 4-(or 5-)Hydroxymethyl-2-thiolimidazole, 191

Johlin, J. M., and **Moreland, Ferrin B.** Studies of the blood picture of the turtle after complete anoxia, 107

Jukes, Thomas H. The fractionation of the amino acids of livetin, 425

K

Keenan, J. A., Kline, O. L., Elvehjem, C. A., Hart, E. B., and **Halpin, J. G.** New nutritional factors required by the chick, 671

Kemmerer, A. R., and **Steenbock, H.** A study of the sparing action of fats on the vitamin B content of animal tissues, 353

Kerly, Margaret, and **Ronzoni, Ethel.** The effect of pH on carbohydrate changes in isolated anaerobic frog muscle, 161

—. See RONZONI and KERLY, 175

Kik, M. C. See SMITH and KIK, 391

—. See SURE, KIK, and CHURCH, 417

Kinard, Fredrick W., and **Chanutin, Alfred.** Studies on the phosphatase content of the whole rat and of the vasoligated kidney, 461

King, C. G. See BESSEY and KING, 687

Kline, B. E. See ELVEHJEM and KLINE, 733

Kline, O. L. See KEENAN, KLINE, ELVEHJEM, HART, and HALPIN, 671

Klingler, Charlotte. See Anslow, Foster, and Klingler, 81

Kuyper, Adrian C., and **Mattill, H. A.** Some aspects of citric acid metabolism, 51

L

Levene, P. A., and **Marker, R. E.** Action of nitrous acid and nitrosyl chloride on β-phenylpropylamine. A method of separating primary, secondary, and tertiary phenyl chlorides and phenylcarbinols, 373

— and —. Molecular rotations in members of homologous series, 299

— and **Schormüller, A.** Serinephosphoric acid obtained on hydrolysis of vitellinic acid. II, 537

Lewis, Helen Geneva, and **Luck, James Murray.** An apparatus for automatically measuring the respiratory exchange of small animals, 209

— and —. The calorigenic action of glycine, 227

Lewis, Howard B. See Tulane, Christman, and Lewis, 141

—. See Tulane and Lewis, 151

Loring, Hubert S., Dorfmann, Ralph, and **du Vigneaud, Vincent.** The availability of mesocystine for promotion of growth in connection with cystine-deficient diets, 399

Luck, James Murray. See Lewis and Luck, 209, 227

M

Mackay, F. H. See Rabinowitch, Dingwall, and Mackay, 707, 725

Macy, Icie G. See Erickson, Stoner, and Macy, 235

Maddock, Stephen J., Trimble, Harry C., and **Carey, Benjamin W., Jr.** Is *d*-glucose absorbed from the stomach of the dog? 285

Marker, R. E. See Levene and Marker, 299, 373

Marks, Graham W., and **Fox, Denis L.** The inactivation of mussel catalase by oxygen, 269

Marvel, Carl S. See Jackson and Marvel, 191

Mattill, H. A. See Kuyper and Mattill, 51

McDonald, Francis G. The stability of carotene in ethyl esters of fatty acids, and in liver and vegetable oils, 455

Medlar, E. M. See Blatherwick, Medlar, Bradshaw, Post, and Sawyer, 93

Meyer, Karl. On catalytic oxidations. II. The oxidation of benzaldehyde, 25

—. III. The oxidation of pyruvic acid, 39

—. IV. Photochemical oxidation of some ethylenic double bonds, 597

—. V. The oxidation of ergosterol, 607

Miller, C. O. See Swartz and Miller, 651

XUM

Moreland, Ferrin B. See JOHLIN and MORELAND, 107
Morgulis, Sergius. Studies on urinary acidity. II, 757

N

Neale, Sarah. See COX, 777
Newman, M. S. See ANDERSON and NEWMAN, 197, 405

O

O'Brien, Helen. See STADIE and O'BRIEN, 521

P

Pigott, Madeleine G. See HOLMES, PIGOTT, and CAMPBELL, 657
Post, Anna L. See BLATHERWICK, MEDLAR, BRADSHAW, POST, and SAWYER, 93

R

Rabinowitch, I. M., Dingwall, Andrew, and **Mackay, F. H.** Studies on cerebrospinal fluid. I. Chemical and spectrographic detection of lead, 707
—, —, and —. II. The occurrence of lead in cerebrospinal fluid, 725
Read, Lee S. See DUNN, ROSS, and READ, 579
Renshaw, R. R., and **Armstrong, W. D.** Basis for the physiological activity of onium compounds. XIV. Aryl ethers of choline. I, 187
— and **Hotchkiss, H. T., Jr.** Basis for the physiological activity of onium compounds. XIII. Betaine amides, 183
Robscheit-Robbins, Frieda S. See DAFT, ROBSCHEIT-ROBBINS, and WHIPPLE, 495
Robson, George M. See FITZHUGH, ROBSON, and DRABKIN, 617
Ronzoni, Ethel, and **Kerly, Margaret.** The disappearance of hexosephosphate from intact frog muscle, 175
—. See KERLY and RONZONI, 161
Ross, Frank J. See DUNN, ROSS, and READ, 579

S

Sahyun, Melville. The determination of glycogen, 203
Sawyer, Susan D. See BLATHERWICK, MEDLAR, BRADSHAW, POST, and SAWYER, 93
Schmidt, Carl L. A. See DALTON and SCHMIDT, 549
Schoenheimer, Rudolf, and **Breusch, Fritz.** Synthesis and destruction of cholesterol in the organism, 439
Schormüller, A. See LEVENE and SCHORMÜLLER, 537
Sevringhaus, Elmer L. See CAPE and SEVRINGHAUS, 257
Sherman, W. C. See ELVEHJEM, HART, and SHERMAN, 61
Smith, H. Gregg. The metabolism of azelaic acid, 531
Smith, Margaret Elizabeth, and **Kik, M. C.** A micromethod for the determination of fatty acids from small amounts of whole blood, 391

XUM

Somogyi, Michael. The distribution of sugar and rate of glycolysis in the blood of some mammals, 665

Stadie, William C., and **O'Brien, Helen.** The catalysis of the hydration of carbon dioxide and dehydration of carbonic acid by an enzyme isolated from red blood cells, 521

Stearns, Genevieve. See BOYD, DRAIN, and STEARNS, 327

Steenbock, H. See BAUMANN, STEENBOCK, INGRAHAM, and FRED, 339

—. See KEMMERER and STEENBOCK, 353

Stoner, Neva. See ERICKSON, STONER, and MACY, 235

Sure, Barnett, Kik, M. C., and **Church, Anna E.** The influence of fasting on the concentration of blood lipids in the albino rat, 417

Svedberg, The. Sedimentation constants, molecular weights, and isoelectric points of the respiratory proteins, 311

Swartz, K. T., and **Miller, C. O.** The preparation of glucuronic acid from borneolglucuronic acid, 651

T

Trimble, Harry C. See MADDOCK, TRIMBLE, and CAREY, 285

Tulane, Victor J., Christman, A. A., and **Lewis, Howard B.** Studies in the synthesis of hippuric acid in the animal organism. VIII. Hydrazine intoxication and hippuric acid synthesis in the rabbit, 141

Tulane, Victor J., and **Lewis, Howard B.** Studies in the synthesis of hippuric acid in the animal organism. IX. A comparative study of the rate of synthesis and excretion of hippuric and phenaceturic acids by the rabbit, 151

V

Vickery, Hubert Bradford, and **Gordon, William G.** Complex compounds formed by certain amino acids in the presence of mercuric chloride and alkali, 543

— and **White, Abraham.** The basic amino acids of casein, 413

du Vigneaud, Vincent. See LORING, DORFMANN, and DU VIGNEAUD, 399

Visscher, Maurice B. See DILLMAN and VISSCHER, 791

Volk, Marie C. See GILLIGAN, VOLK, and ALTSCHULE, 745

W

Whipple, G. H. See DAFT, ROBSCHEIT-ROBBINS, and WHIPPLE, 495

White, Abraham. The cystine yielded by deaminized casein, 295

—. See VICKERY and WHITE, 413

XUM

XUM

INDEX TO SUBJECTS

A

Acid-base:
Balance, basal conditions (Cape and Sevringhaus) 257

Acidity:
Urine. II (Morgulis) 757

Albumin:
Egg, heat-denatured, optical rotation (Barker) 1

Alkaline reserve:
Organic compounds, salts, ingestion effect. I (Cape and Sevringhaus) 257

Amides:
Betaine, physiological activity (Renshaw and Hotchkiss) 183

Amine:
β-Phenylpropyl-, nitrosyl chloride action (Levene and Marker) 373
—, nitrous acid action (Levene and Marker) 373

Amino acid(s):
Basic, blood serum protein (Block) 261
—, casein (Vickery and White) 413
Compounds, alkaline mercuric chloride effect (Vickery and Gordon) 543
Livetin, fractionation (Jukes) 425

Amino acid(s)—*continued:*
Physical properties and constants (Dalton and Schmidt) 549
Solubility, water (Dunn, Ross, and Read) 579

Anemia:
Metabolism, protein-free diet (Daft, Robscheit-Robbins, and Whipple) 495
Milk-produced, therapy (Fitz-Hugh, Robson, and Drabkin) 617

Anoxia:
Blood, turtle, effect (Johlin and Moreland) 107

Apparatus:
Respiratory exchange, small animals, automatic (Lewis and Luck) 209

Azelaic acid:
Metabolism (Smith) 531

B

Bacillus:
Tubercle. *See* Tubercle bacillus.

Bases:
Blood, determination (Hald) 471
— serum, determination (Hald) 471

Benzaldehyde:
Oxidation (Meyer) 25

Betaine amides:
Physiological activity (Renshaw and Hotchkiss) 183
Bilirubin:
Renal threshold. II (Bensley) 71
Biological systems:
Directive influences. III (Falk) 363
Blood:
Anemia, milk-produced (Fitz-Hugh, Robson, and Drabkin) 617
Glycolysis rate, mammal (Somogyi) 665
Turtle, anoxia, effect (Johlin and Moreland) 107
Blood sugar:
Mammal, distribution (Somogyi) 665
Bone:
Marrow, anemia, milk-produced (Fitz-Hugh, Robson, and Drabkin) 617
Borneolglucuronic acid:
Glucuronic acid preparation from (Swartz and Miller) 651
Butter fat:
Fatty acids, isolation and identification (Bosworth and Brown) 115
Linoleic acid (Eckstein) 135
Linolenic acid (Eckstein) 135

C

Calcium:
Blood plasma, diffusibility, parathormone effect (Gilligan, Volk, and Altschule) 745
— — ultrafiltrates, bicarbonate ion concentration, effect (Dillman and Visscher) 791
— — —, hydrogen ion concentration, effect (Dillman and Visscher) 791
— serum and edema fluids, concentration, comparison (Gilligan, Volk, and Altschule) 745
— —, forms. III (Benjamin and Hess) 629
— —, —, hypercalcemia (Benjamin and Hess) 629
Chick (Elvehjem and Kline) 733
Filtrable, non-filtrable, blood, chicken, relation (Correll and Hughes) 511
Carbinols:
Phenyl-, separation (Levene and Marker) 373
Carbohydrate:
Muscle, anaerobic, frog, hydrogen ion concentration effect (Kerly and Ronzoni) 161
Carbon dioxide:
Hydration, blood cell, red, enzyme from, catalytic effect (Stadie and O'Brien) 521

XUM

Carbonic acid:
Dehydration, blood cell, red, enzyme from, catalytic effect (Stadie and O'Brien) 521

Carotene:
Stability, fatty acids, ethyl esters (McDonald) 455
—, liver (McDonald) 455
—, vegetable oils (McDonald) 455
Synthesis, microorganisms (Baumann, Steenbock, Ingraham, and Fred) 339

Casein:
Amino acids, basic (Vickery and White) 413
Deaminized, cystine (White) 295

Catalase:
Mussel, oxygen, inactivation (Marks and Fox) 269

Cerebrospinal fluid:
I (Rabinowitch, Dingwall, and Mackay) 707
II (Rabinowitch, Dingwall, and Mackay) 725
Lead (Rabinowitch, Dingwall, and Mackay) 725
—, detection, spectrographic (Rabinowitch, Dingwall, and Mackay) 707
—, determination (Rabinowitch, Dingwall, and Mackay) 707

Cerevisterol:
Composition and properties (Honeywell and Bills) 515
Sterol relation (Honeywell and Bills) 515

Chick:
Nutritional factors, new (Keenan, Kline, Elvehjem, Hart, and Halpin) 671

Children:
Dental caries, metabolism (Boyd, Drain, and Stearns) 327

Cholesterol:
Synthesis and destruction, animal organism (Schoenheimer and Breusch) 439

Choline:
Aryl ethers, physiological activity (Renshaw and Armstrong) 187

Citric acid:
Metabolism (Kuyper and Mattill) 51

Cysteine:
Determination, gasometric (Hess) 449

Cystine:
Casein, deaminized (White) 295
-Deficient diet, mesocystine, growth effect (Loring, Dorfmann, and du Vigneaud) 399
Determination, gasometric (Hess) 449
Meso-, cystine-deficient diet, growth effect (Loring, Dorfmann, and du Vigneaud) 399

XUM

D

Dental caries:
See Tooth.
Diet:
Blood lipids and. II (BLOOR) 699
Fatty liver production (BLATHERWICK, MEDLAR, BRADSHAW, POST, and SAWYER) 93
See also Nutrition.

E

Edema fluid:
Calcium, blood serum and, comparison (GILLIGAN, VOLK, and ALTSCHULE) 745
Phosphate, blood serum and, comparison (GILLIGAN, VOLK, and ALTSCHULE) 745
Protein, blood serum and, comparison (GILLIGAN, VOLK, and ALTSCHULE) 745
Egg:
Albumin, heat-denatured, optical rotation (BARKER) 1
Enzyme:
Artificial, proteolytic, hematoporphyrin (BOYD) 249
Blood cell, red, carbon dioxide hydration, catalytic effect (STADIE and O'BRIEN) 521
— —, —, carbonic acid dehydration, catalytic effect (STADIE and O'BRIEN) 521
Enzyme—*continued:*
See also Catalase, Lipase, Phosphatase, Protease.
Ergosterol:
Oxidation (MEYER) 607

Ethylenic double bonds:
Oxidation, photochemical (MEYER) 597

F

Fasting:
Blood lipids, effect (SURE, KIK, and CHURCH) 417
Fat:
Butter. *See* Butter fat.
-Soluble vitamins. XXXVIII (BAUMANN, STEENBOCK, INGRAHAM, and FRED) 339
Vitamin B, tissue, animal, sparing action (KEMMERER and STEENBOCK) 353
Fatty acids:
Blood, microdetermination (SMITH and KIK) 391
Butter fat, isolation and identification (BOSWORTH and BROWN) 115
Fatty acid esters:
Nutritive value (COX) 777

G

d-**Glucose:**
Absorption, stomach (MADDOCK, TRIMBLE, and CAREY) 285
Glucuronic acid:
Borneol-, glucuronic acid preparation from (SWARTZ and MILLER) 651

Glucuronic acid—*continued:*
Preparation, borneolglucuronic acid (SWARTZ and MILLER) 651
Glycine:
Calorigenic action (LEWIS and LUCK) 227
Solutions, absorption spectra (ANSLOW, FOSTER, and KLINGLER) 81
Glycogen:
Determination (SAHYUN) 203
Glycolysis:
Blood, mammal, rate (SOMOGYI) 665
Growth:
Cystine-deficient diet, mesocystine effect (LORING, DORFMANN, and DU VIGNEAUD) 399

H

Hematoporphyrin:
Enzyme action (BOYD) 249
Hemoglobin:
Blood, chicken (HOLMES, PIGOTT, and CAMPBELL) 657
Formation, iron, availability (ELVEHJEM, HART, and SHERMAN) 61
New formed, protein catabolism and (DAFT, ROBSCHEIT-ROBBINS, and WHIPPLE) 495
Production. IV (FITZ-HUGH, ROBSON, and DRABKIN) 617
Hexosephosphate:
Muscle, frog, disappearance (RONZONI and KERLY) 175
Hippuric acid:
Phenaceturic acid and, synthesis and excretion rates, comparison (TULANE and LEWIS) 151
Synthesis, animal organism. VIII (TULANE, CHRISTMAN, and LEWIS) 141
IX (TULANE and LEWIS) 151
—, hydrazine intoxication and (TULANE, CHRISTMAN, and LEWIS) 141
Homologous series:
Molecular rotations (LEVENE and MARKER) 299
Hydrazine:
Intoxication, hippuric acid synthesis and (TULANE, CHRISTMAN, and LEWIS) 141
4-Hydroxymethyl-2-thiolimidazole:
(JACKSON and MARVEL) 191
5-Hydroxymethyl-2-thiolimidazole:
(JACKSON and MARVEL) 191
Hypercalcemia:
Blood serum calcium, forms (BENJAMIN and HESS) 629
— — phosphorus, inorganic, forms (BENJAMIN and HESS) 629

I

Imidazole:
4-Hydroxymethyl-2-thiol- (JACKSON and MARVEL) 191
5-Hydroxymethyl-2-thiol- (JACKSON and MARVEL) 191

XUM

Iron:
Hemoglobin formation, availability (Elvehjem, Hart, and Sherman) 61

K

Kidney:
Bilirubin threshold. II (Bensley) 71
Phosphatase, vasoligated (Kinard and Chanutin) 461

L

***d*-Lactate:**
Oxygen consumption, influence (Buchwald, Cori, and Fisher) 763
***l*-Lactate:**
Oxygen consumption, influence (Buchwald, Cori, and Fisher) 763
Lead:
Cerebrospinal fluid (Rabinowitch, Dingwall, and Mackay) 725
— —, detection, spectrographic (Rabinowitch, Dingwall, and Mackay) 707
— —, determination (Rabinowitch, Dingwall, and Mackay) 707
Linoleic acid:
Butter fat (Eckstein) 135
Linolenic acid:
Butter fat (Eckstein) 135
Lipase:
Protease effect (Falk) 363
Lipids:
Blood, diet and. II (Bloor) 699
—, fasting effect (Sure, Kik, and Church) 417
—, overfeeding effect (Bloor) 699
Tubercle bacillus, chemistry. XXXV (Anderson and Newman) 197
XXXVII (Anderson and Newman) 405
Liver:
Fatty, dietary production (Blatherwick, Medlar, Bradshaw, Post, and Sawyer) 93
Vitamin G (B_2) (Block and Farquhar) 643
Livetin:
Amino acid fractionation (Jukes) 425

M

Magnesium:
Blood serum (Benjamin, Hess, and Gross) 383
Milk (Benjamin, Hess, and Gross) 383
Mesocystine:
Cystine-deficient diet, growth effect (Loring, Dorfmann, and du Vigneaud) 399
Metabolism:
Children, dental caries (Boyd, Drain, and Stearns) 327
Microorganism:
Carotene synthesis (Baumann, Steenbock, Ingraham, and Fred) 339

Microorganism—*continued:*
Vitamin A synthesis (Baumann, Steenbock, Ingraham, and Fred) 339

Milk:
Anemia from, therapy (Fitz-Hugh, Robson, and Drabkin) 617
Human. XIV (Erickson, Stoner, and Macy) 235

Molecular rotation:
Homologous series (Levene and Marker) 299

Muscle:
Frog, anaerobic, carbohydrate, hydrogen ion concentration effect (Kerly and Ronzoni) 161
—, hexosephosphate disappearance (Ronzoni and Kerly) 175
Heart, sugar, fermentable (Cori, Closs, and Cori) 13
Skeletal, sugar, fermentable (Cori, Closs, and Cori) 13

Mussel:
Catalase, oxygen, inactivation (Marks and Fox) 269

N

Nitrogenous constituents:
Milk, determination (Erickson, Stoner, and Macy) 235

Nutrition:
Chick, new factors (Keenan, Kline, Elvehjem, Hart, and Halpin) 671

O

Onium:
Compounds, physiological activity. XIII (Renshaw and Hotchkiss) 183
XIV (Renshaw and Armstrong) 187

Organic compounds:
Salts, alkaline reserve, ingestion effect. I (Cape and Sevringhaus) 257

Oxidation:
Catalytic. II (Meyer) 25
III (Meyer) 39
IV (Meyer) 597
V (Meyer) 607

Oxygen:
Consumption, *d*-lactate influence (Buchwald, Cori, and Fisher) 763
—, *l*-lactate influence (Buchwald, Cori, and Fisher) 763

P

Parathormone:
Blood plasma calcium diffusibility, effect (Gilligan, Volk, and Altschule) 745

Phenaceturic acid:
Hippuric acid and, synthesis and excretion rates, comparison (Tulane and Lewis) 151

Phenylcarbinols:
Separation (Levene and Marker) 373

Phenyl chlorides:
Separation (Levene and Marker) 373

XUM

β-Phenylpropylamine:
Nitrosyl chloride action (Levene and Marker) 373
Nitrous acid action (Levene and Marker) 373
Phosphatase:
Kidney, vasoligated (Kinard and Chanutin) 461
Rat (Kinard and Chanutin) 461
Phosphate:
Blood serum and edema fluids, concentration, comparison (Gilligan, Volk, and Altschule) 745
Phosphorus:
Chick (Elvehjem and Kline) 733
Inorganic, blood serum, forms. III (Benjamin and Hess) 629
—, — —, —, hypercalcemia (Benjamin and Hess) 629
Phthiocol:
Tubercle bacillus, human, chemical constitution (Anderson and Newman) 197
— —, —, synthesis (Anderson and Newman) 405
Pigment:
Tubercle bacillus, human, chemical constitution (Anderson and Newman) 197
— —, —, synthesis (Anderson and Newman) 405
Plant:
Tissue, vitamin C distribution and determination (Bessey and King) 687
Protease:
Lipase action, effect (Falk) 363
Protein:
Blood serum, amino acid, basic (Block) 261
— — and edema fluids, concentration, comparison (Gilligan, Volk, and Altschule) 745
Catabolism, hemoglobin, new formed, relation (Daft, Robscheit-Robbins, and Whipple) 495
-Free diet, anemia, metabolism, effect (Daft, Robscheit-Robbins, and Whipple) 495
Respiratory, physical constants (Svedberg) 311
Pyruvic acid:
Oxidation (Meyer) 39

R

Respiratory exchange:
Apparatus, automatic, small animals (Lewis and Luck) 209

S

Serinephosphoric acid:
Vitellinic acid hydrolysis, formation. II (Levene and Schormüller) 537
Sterol:
Cerevisterol relation (Honeywell and Bills) 515
Sugar:
Fermentable, heart (Cori, Closs, and Cori) 13
—, muscle, skeletal (Cori, Closs, and Cori) 13

T

Tooth:
Dental caries, metabolism, children (Boyd, Drain, and Stearns) 327

Tubercle bacillus:
Human, phthiocol, chemical constitution (Anderson and Newman) 197
—, —, synthesis (Anderson and Newman) 405
Lipids, chemistry. XXXV (Anderson and Newman) 197
XXXVII (Anderson and Newman) 405

Turtle:
Blood, anoxia effect (Johlin and Moreland) 107

U

Urine:
Acidity. II (Morgulis) 757

V

Vitamin(s):
A, synthesis, microorganisms (Baumann, Steenbock, Ingraham, and Fred) 339
Vitamin(s)—*continued:*
B, tissue, animal, fat sparing action (Kemmerer and Steenbock) 353
B_2. *See also* Vitamin G.
C, tissues, determination and distribution (Bessey and King) 687
Fat-soluble. XXXVIII (Baumann, Steenbock, Ingraham, and Fred) 339
G (B_2). I (Block and Farquhar) 643
— —, liver (Block and Farquhar) 643
— —, yeast (Block and Farquhar) 643

Vitellinic acid:
Serinephosphoric acid formation from hydrolysis of. II (Levene and Schormüller) 537

Y

Yeast:
Vitamin G (B_2) (Block and Farquhar) 643

XUM